

What is claimed is:

1. A magnetic transfer master medium provided with an uneven surface for transferring data to a slave medium, wherein said uneven pattern is formed so that there are no depression portions therein that are completely surrounded by protrusion portions.

2. A magnetic transfer master medium as defined in claim 1, wherein

the width of the protrusion portions of the uneven pattern in the direction of the track pitch is formed so as to be narrower than said track width.

3. A magnetic transfer master medium as defined in claim 1, wherein

the protrusion portions formed within a single track are formed so that the width thereof in the direction of the track pitch is narrower than said track width, and

the protrusion portions formed straddling two adjacent tracks are formed so that the width thereof in the direction of the track pitch is substantially equal to said track width.

4. A magnetic transfer master medium provided with an uneven surface for transferring data to a slave medium, wherein a rough surface is formed on the surface of the protrusion portions of the uneven pattern.

5. A magnetic transfer master medium as defined in claim 4, comprising a substrate,

an uneven pattern provided on the surface of said substrate,
and

a pliable magnetic layer formed on at least the sections
constituting the protrusion portions of said uneven pattern,

5 wherein

said rough surface corresponds to a rough surface formed
by use of a surfacing process on at least the sections of the
substrate on which the pliable magnetic layer has been formed.

So the
"rough surface"
could be on
other than
the protrusion?

6. A magnetic transfer master medium as defined in claim

10 4, comprising

a substrate,

an uneven pattern provided on the surface of said
substrate,

15 a granular material coated onto at least the sections of
the surface of said uneven pattern constituting the protrusion
portions of said uneven pattern, and

a pliable magnetic layer formed over said granular
material, wherein

20 { said rough surface is formed according to the surface form
of the protrusion portions that have been coated with said
granular material.

What
does this
mean?
That the rough
surf. is the
granular
mat'l?

7. A magnetic transfer master medium as defined in claim

4, comprising

a substrate,

25 an uneven pattern provided on the surface of said substrate,
and

a pliable magnetic layer formed on at least the sections constituting the protrusion portions of said uneven pattern, wherein

5 said rough surface is formed as a surface roughness, the formation of which is controlled by the formation conditions of the pliable magnetic layer.

8. A magnetic transfer master medium as defined in claim 4, comprising

a substrate,

10 an uneven pattern provided on the surface of said substrate,

a film of porous material formed on at least the sections constituting the protrusion portions of said uneven pattern, and

15 a pliable magnetic layer formed on said film of porous material, wherein

said rough surface is formed according to the surface form of the film of porous material. *Film = rough?*

20 9. A magnetic transfer master medium as defined in claim 8, wherein

the film of porous material has a volume ratio in the range of 30-99%, and

a surface roughness in the range of $R_p = 0.0001$ to 0.1 .

25 10. A magnetic transfer master medium as defined in claim 4, wherein

the rough surface is an uneven pattern having depression

portions of a depth in the 3-50 nm range.

11. A magnetic transfer master medium provided with an uneven surface for transferring data to a slave medium, wherein

the channels of the uneven pattern are of a depth in the
5 50-1000 nm range immediately after the manufacture thereof, and

the surface of the protrusion portions is ground at least once after the manufacture thereof and before said medium has been used, and then said medium is used.

12. A magnetic transfer master medium provided with an
10 uneven surface for transferring data to a slave medium, wherein

the channels of the uneven pattern are of a depth in the
50-1000 nm range immediately after the manufacture thereof, and

the surface of the protrusion portions is ground at least
once after said medium has been used, and then said medium is
15 reused.

13. A method of using a magnetic transfer master medium
provided with an uneven surface for transferring data to a slave
medium, wherein,

said magnetic transfer master medium is used after the
20 surface of the protrusion portions of the uneven pattern formed
thereon has been ground at least once immediately after the
manufacture and prior to the use of said medium.

14. A method of using a magnetic transfer master medium
as defined in claim 13

25 the surface of the protrusion portions of the uneven
pattern formed on the magnetic transfer master medium is ground

according to the degree to which said surface is marred.

15. A method of using a magnetic transfer master medium provided with an uneven pattern for transferring data to a slave medium, wherein:

5 said magnetic transfer master medium is reused after the surface of the protrusion portions of the uneven pattern that has been formed thereon is ground at least once after the said medium has been used.

10 16. A method of using a magnetic transfer master medium as defined in claim 15, wherein

15 the surface of the protrusion portions of the uneven pattern formed on the magnetic transfer master medium is ground according to the degree to which said surface is marred.